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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

**HSJ920030246US1**

First Inventor

**Manfr d Albr cht**

Title

METHOD FOR MAGNETIC RECORDING ON PATTERNED MULTILEVEL  
PERPENDICULAR MEDIA USING THERMAL ASSISTANCE AND FIXED WRITE CURRENT

Express Mail Label No.

**EL995203323US****APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 202311. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.3. ☒ Specification [Total Pages **17**]  
(preferred arrangement set forth below)

- Descriptive title of the invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **7**]5. Oath or Declaration [Total Pages **3**]

- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)
- i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).

6. ☐ Application Data Sheet. See 37 CFR 1.767. ☐ CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)a. ☐ Computer Readable Form (CRF)

b. Specification Sequence Listing on:

i. ☐ CD-ROM or CD-R (2 copies); orii. ☐ paperc. ☐ Statements verifying identity of above copies**ACCOMPANYING APPLICATION PARTS**9. ☒ Assignment Papers (cover sheet & document(s))10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney11. ☐ English Translation Document (if applicable)12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations13. ☐ Preliminary Amendment14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)16. ☐ Nonpublication Request under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.17. ☐ Other: \_\_\_\_\_

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: \_\_\_\_\_ / \_\_\_\_\_

Prior application information:

Examiner: \_\_\_\_\_

Group Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.**19. CORRESPONDENCE ADDRESS**☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or

☒

Correspondence address below

Name

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Zip Code

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Telephone

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Name (Print/Type)

**Thomas R. Berth Id**

Registration No. (Attorney/Agent)

**28,689**

Signature

*Thomas R. Berthold*

Date

**11/20/03**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**FEE TRANSMITTAL  
for FY 2004**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$) 810.00

**Complete if Known**

Application Number

Filing Date

First Named Inventor

Manfred Albrecht

Examiner Name

Group Art Unit

Attorney Docket No.

HSJ920030246US1

**METHOD OF PAYMENT**

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number

502587

Deposit Account Name

Hitachi Global Storage Technologies

- ☒
- Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

- ☐
- Applicant claims small entity status. See 37 CFR 1.27

- 2.
- ☐
- Payment Enclosed:

☐ Check☐ Credit card☐ Money Order☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Small Entity

Fee Code (\$)

| Fee Code (\$) | Large Entity | Small Entity | Fee Description        | Fee Paid |
|---------------|--------------|--------------|------------------------|----------|
| 101 770       | 201 385      |              | Utility filing fee     | 770.00   |
| 106 330       | 206 165      |              | Design filing fee      |          |
| 107 510       | 207 255      |              | Plant filing fee       |          |
| 108 770       | 208 385      |              | Reissue filing fee     |          |
| 114 160       | 214 80       |              | Provisional filing fee |          |

SUBTOTAL (1) (\$ 770.00)

**2. EXTRA CLAIM FEES**

| Total Claims       | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| 6                  | -20** = 0    | 18.00          | 0.00     |
| 1                  | -3** = 0     | 86.00          | 0.00     |
| Multiple Dependent |              |                |          |

Large Entity Small Entity

Fee Code (\$)

| Fee Code (\$) | Large Entity | Small Entity | Fee Description  |
|---------------|--------------|--------------|--|
| 103 18        | 203 9        |              | Claims in excess of 20                                     |
| 102 84        | 202 42       |              | Independent claims in excess of 3                          |
| 104 280       | 204 140      |              | Multiple dependent claim, if not paid                      |
| 109 84        | 209 42       |              | ** Reissue independent claims over original patent         |
| 110 18        | 210 9        |              | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$ 0.00)

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

| Large Entity | Small Entity | Fee Code (\$) | Fee Code (\$) | Fee Description  | Fee Paid |
|--------------|--------------|---------------|---------------|--|----------|
| 105 130      | 205 65       |               |               | Surcharge - late filing fee or oath  |          |
| 127 50       | 227 25       |               |               | Surcharge - late provisional filing fee or cover sheet                     |          |
| 139 130      | 139 130      |               |               | Non-English specification  |          |
| 147 2,520    | 147 2,520    |               |               | For filing a request for <i>ex parte</i> reexamination                     |          |
| 112 920*     | 112 920*     |               |               | Requesting publication of SIR prior to Examiner action                     |          |
| 113 1,840*   | 113 1,840*   |               |               | Requesting publication of SIR after Examiner action                        |          |
| 115 110      | 215 55       |               |               | Extension for reply within first month                                     |          |
| 116 420      | 216 210      |               |               | Extension for reply within second month                                    |          |
| 117 950      | 217 475      |               |               | Extension for reply within third month                                     |          |
| 118 1,480    | 218 740      |               |               | Extension for reply within fourth month                                    |          |
| 128 2,010    | 228 1005     |               |               | Extension for reply within fifth month                                     |          |
| 119 320      | 219 160      |               |               | Notice of Appeal   |          |
| 120 320      | 220 160      |               |               | Filing a brief in support of an appeal                                     |          |
| 121 280      | 221 140      |               |               | Request for oral hearing   |          |
| 138 1,510    | 138 1,510    |               |               | Petition to institute a public use proceeding                              |          |
| 140 110      | 240 55       |               |               | Petition to revive - unavoidable   |          |
| 141 1,300    | 241 650      |               |               | Petition to revive - unintentional   |          |
| 142 1,300    | 242 650      |               |               | Utility issue fee (or reissue)   |          |
| 143 470      | 243 235      |               |               | Design issue fee   |          |
| 144 620      | 244 310      |               |               | Plant issue fee  |          |
| 122 130      | 122 130      |               |               | Petitions to the Commissioner  |          |
| 123 50       | 123 50       |               |               | Processing fee under 37 CFR 1.17(q)  |          |
| 126 180      | 126 180      |               |               | Submission of Information Disclosure Stmt                                  |          |
| 581 40       | 581 40       |               |               | Recording each patent assignment per property (times number of properties) | 40       |
| 146 740      | 246 370      |               |               | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |
| 149 740      | 249 370      |               |               | For each additional invention to be examined (37 CFR § 1.129(b))           |          |
| 179 750      | 279 375      |               |               | Request for Continued Examination (RCE)                                    |          |
| 169 900      | 169 900      |               |               | Request for expedited examination of a design application                  |          |

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00)

**SUBMITTED BY**

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28,689

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Signature

Thomas R. Berthold

Date

11/20/03

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of

Albrecht et al.

Group Art Unit: n/a

Serial No. not yet assigned

Examiner: n/a

Filed: Herewith

For: METHOD FOR MAGNETIC RECORDING ON PATTERNED  
MULTILEVEL PERPENDICULAR MEDIA USING THERMAL  
ASSISTANCE AND FIXED WRITE CURRENT

Assistant Commissioner of Patents and Trademarks

Alexandria, VA 22313-1450

**EXPRESS MAIL CERTIFICATE**

I hereby certify that the above paper/fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to the Assistant Commissioner for Patents, Alexandria, VA 22313-1450.

Express Mail No.: EL 995203323 US

Date of Deposit: December 3, 2003

Person mailing paper/fee: Mary Lou Domenici

Signature

A handwritten signature in cursive script, appearing to read 'Mary Lou Domenici', is written over a horizontal line.